

# FACT SHEET



**LeMar Drive Site  
Ellisville, Missouri**

**November 5, 1998**

## **ACTIVITIES UNDERWAY TO REMOVE DIOXIN-CONTAMINATED MATERIALS AND RESTORE LEMAR DRIVE SITE**

### **Description of Cleanup Activities**

- **Excavation** of dioxin-contaminated soils will be performed by removing successive layers in designated areas using conventional earth working equipment until soil sampling verifies that area is clean
- **Dust Suppression** will be performed, as necessary, to prevent airborne migration of contaminated materials during the cleanup
- **Continuous Air Monitoring** will be conducted to verify that airborne contamination is not migrating from the site
- **Transportation** of contaminated materials to the Safety-Kleen facility in Coffeyville, Kansas will be accomplished using 26-foot end-dumping or box trailers certified for hazardous material transportation
- **Incineration** of dioxin-contaminated materials will be performed at the Coffeyville, Kansas facility

### **Introduction**

The Environmental Protection Agency is preparing to begin the removal of dioxin-contaminated soils from the LeMar Drive site. Contaminated materials will be placed in covered transport trailers and hauled to the Safety-Kleen facility located in Coffeyville, Kansas for incineration.

Preliminary work already completed has included surveying of the contaminated area to locate sampling coordinates, installation of truck scales and installation of on-site facilities to support the cleanup.

Weather permitting, EPA plans to begin excavating contaminated soils within the next 10 days, and placing these materials in lined bulk-solids handling sacks. These materials will be secured and temporarily stored at the site pending transportation to the Safety-Kleen incineration facility located in Coffeyville, Kansas.

Transportation of dioxin-contaminated materials to the Coffeyville, Kansas facility will start within one to two weeks following the start of excavation. Dioxin-contaminated materials will be secured during transport to prevent release of contamination enroute.

## **Background**

The EPA confirmed the presence of dioxin contamination at the LeMar Drive site through sampling conducted in July, 1997. In August and September, 1997, extensive soil testing was performed at the LeMar Drive site to determine the boundaries of the contamination. Dioxin levels as high as 1,170 parts per billion (ppb) were detected at the site. In addition, dust sampling inside the residence located at the site indicated interior contamination levels up to 6 ppb. Dioxin concentrations exceeding 1 ppb are generally of concern for public health protection in residential areas.

In September, 1997, EPA commenced an interim response action to protect public health until final management of the contaminated materials could be accomplished. These interim measures included relocation of on-site residents, excavation of approximately 1,300 tons of dioxin-contaminated materials in outlying areas of the site, consolidation of these excavated materials beneath an impermeable liner, and installation of a security fence surrounding the contaminated area to control access. These interim actions were completed in December, 1997.

In March, 1998, EPA released an Engineering Evaluation/Cost Analysis for the LeMar Drive site that evaluated final management alternatives for the dioxin-contaminated materials. An availability session was conducted on April 13, 1998, to provide members of the community the opportunity to meet directly with representatives from the state and federal agencies involved. In July, 1998, the EPA released the Preferred Alternative for the

LeMar Drive site identifying the proposed action for final management of dioxin-contaminated materials. An availability session was conducted again on July 28, 1998.

In September, 1998, EPA issued decision documents which selected the final response action to be implemented at the LeMar Drive site. The selected measures include removal of dioxin-contaminated materials exceeding health-based levels, and transportation of these contaminated materials to the Safety-Kleen facility located in Coffeyville, Kansas for incineration. The selected response includes restoration of the LeMar Drive site to allow future residential use.

## **Implementation Schedule**

Although work is already underway preparing for removal of dioxin-contaminated materials from the LeMar Drive site, the overall work schedule will be largely controlled by weather conditions. Both freezing and wet conditions interfere with excavation activities. Excavation of soil in successive layers is difficult in wet or frozen conditions. Excavation is further affected by rainfall due to concern for erosion of exposed contaminated soils. During periods when excavation is limited or not possible, transport of contaminated materials previously excavated and staged at the site will enable uninterrupted shipments to the Coffeyville, Kansas facility. These materials will include those previously excavated during the interim response action, and those materials staged onsite in bulk solids handling sacks during the initial phase of excavation.

Excavation and containerization of

contaminated soils is expected to commence within the next ten days, weather permitting. Transportation of materials to Coffeyville will start within one to two weeks after the start of excavation. On-site actions involved in the LeMar Drive site cleanup will generally be conducted between the hours of 7:00 a.m. and 5:00 p.m., Monday through Friday. Because of the distance from the LeMar Drive site to Coffeyville, Kansas, trucks leaving the site during the day may not arrive at the incineration facility until early the following morning. Response crews will maintain readiness during transport periods to respond to any spill of contaminated materials along transportation routes.

The incineration facility in Coffeyville, Kansas has a limited storage capacity for dioxin-contaminated materials. Even excavating only during daylight hours, five days per week, EPA anticipates that the shipments of dioxin-contaminated materials from the LeMar Drive site will reach the maximum permitted storage capacity at the Coffeyville, Kansas facility within five to seven weeks. At that time, shipments of contaminated materials will be temporarily suspended for approximately eight weeks while materials are being incinerated until sufficient storage capacity is again available at the Coffeyville facility to accept the contaminated materials remaining at the LeMar Drive site. When sufficient storage capacity is available at the Coffeyville, Kansas facility, shipment of dioxin-contaminated materials will resume for approximately five to seven additional

weeks, or until all contaminated materials have been removed from the site. During the period of suspended excavation, EPA response efforts will be directed at the decontamination and/or disposal of the on-site residence. Decisions regarding the final disposition of the on-site residence will be made during the cleanup.

All trucks used for transportation of dioxin-contaminated materials from the LeMar Drive site will be properly labeled, licensed, and certified for shipment of hazardous wastes. Drivers will also be properly licensed and certified for hazardous waste hauling. Drivers will be assisted at critical points along the route, as necessary, by local authorities to assure the safe transport of contaminated materials. This includes traffic control for trucks entering Manchester Road from Mar-El Drive. Truck drivers will observe all posted speed limits, and take special precautions traveling through the residential neighborhoods adjacent to the site. The transport routes may vary, but will involve accessing Interstate Highway 44 for transport to the Coffeyville, Kansas facility.

Following completion of response actions and restoration activities at the LeMar Drive site, EPA efforts will be directed at removal of dioxin-contaminated materials from the McDonnell Park site located in St. Louis County near St. Ann, Missouri.

### Questions?

Members of the community are encouraged to contact EPA with any questions about the LeMar Drive cleanup. If you have questions about this fact sheet or the LeMar Drive site, please contact:

Hattie Thomas, Community Involvement Coordinator

EPA Region 7

726 Minnesota Avenue

Kansas City, Kansas 66101

1-913-551-7003

Toll-free: 1-800-223-0425

Fax: 1-913-551-7066

E-mail: [thomas.hattie@epamail.epa.gov](mailto:thomas.hattie@epamail.epa.gov)

###